



Fitting Instructions

TOWBAR R51U
For MG-ZS
2017-

MATERIALS

A	1	Cross Bar
B	1	Side Arm
C	1	Side Arm
D	1	Rectangular Washer
E	1	M12 x 30 x 1.75 Bolts, Lock Washer, and Witter Cage Nut
F	1	M12 x 30 x 1.75 Bolts, Lock Washer, Ø40 Plain Washer and Witter Cage Nut
G	4	M8 x 1.25 Spigot Nut, 10mm I.D. Lock Washers and 10mm I.D. Plain Washers
H	4	M10 x 35 x 1.5 Bolts, Lock Washers, Nuts and 2 Flat Washers
J	4	M12 x 30 x 1.75 Bolts, Lock Washers and Nuts
ZE	1	Retractable Electrical Plate
SCP	1	Safety Chain Plate Kit
ZN	1	Neck Kit

FITTING

1. Remove each rear light cluster.
2. Remove bumper
3. Remove Steel Bumper beam.
4. Lower exhaust silencer from both support rubbers and remove heat shield from underside of vehicle floor pan.
5. Pre-assemble Witter Cage Nuts (E & F) to Each Side Arm (B & C) using separate cage nut instructions.
6. Insert Side Arms (B & C) into open ends of chassis rails until they align with the large holes in the base of the Chassis Rail, and located over the threaded studs on the vehicle rear panel. (Notice the identifying holes in Part (C))
7. Loosely secure each Side Arm (B & C) at their forward-most mounting with fasteners (E & F) through the bottom face of each chassis rail.
(Note: Use Rectangular Washer (D) on nearside chassis rail, in the orientation shown, so that access is still possible to the heatshield fastener hole in that area.)
8. Complete assembly of Side Arms to vehicle by loosely assembling fasteners (G & H)
9. Temporarily assemble Cross Bar (A) to each Side Arm (B & C) using one fastener (J) at each end. Ensure the gap between the Cross Bar ends and each sidearm is removed to correctly locate each Side Arm.
10. **Fully tighten fasteners (H, E & F)** for each Side Arm.
11. Remove Cross Bar and **Fully Tighten Fasteners (G)** for each Side Arm.
12. Re-assemble Cross Bar (A) to each Side Arm (B & C) using fasteners (J)
13. Assemble the Chosen Neck Kit (ZN), Safety Chain Plate (SCP) and Electrical Plate (ZE) to Cross Bar (A) using fasteners in the Neck Kit and Safety Chain Plate Kit.
(Note: Shorter fasteners required on Safety Chain Plate side if using a Detachable Neck kit)
14. **Fully tighten all Fasteners**
15. Refit exhaust heat shield, re-forming around fastener (E) in the process
16. Refit exhaust silencer to it's support rubbers
17. Refit Bumper

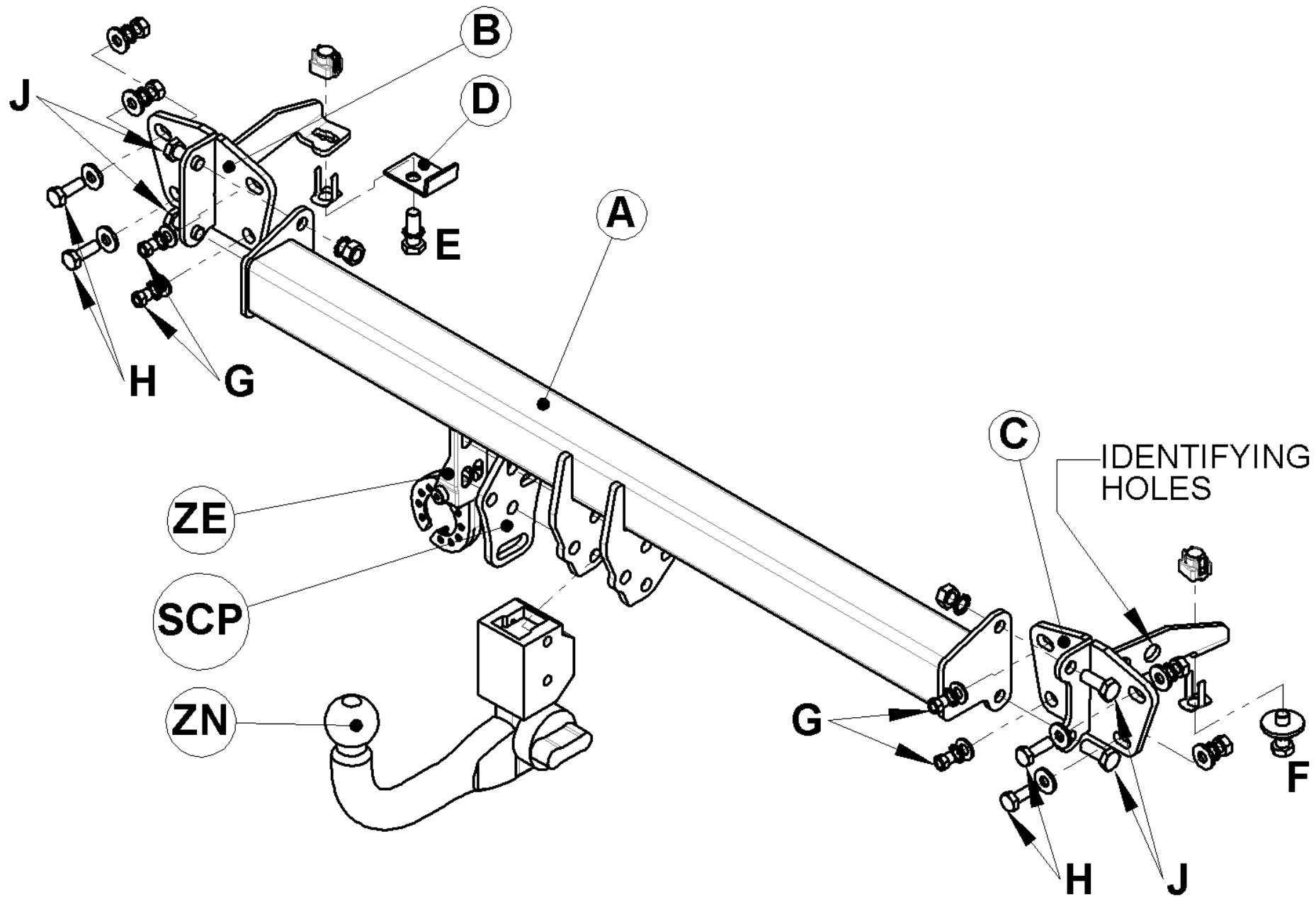
Recommended torque settings:

Grade 8.8 bolts: M8 - 24Nm, M10 - 52 Nm, M12 - 80 Nm, M14 - 130 Nm, M16 - 200 Nm

Grade 10.9: M12 – 120Nm, M10 – 70Nm M8- 35Nm



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MG ZS Towing Electrical Kit Installation Guide 2018



ZS

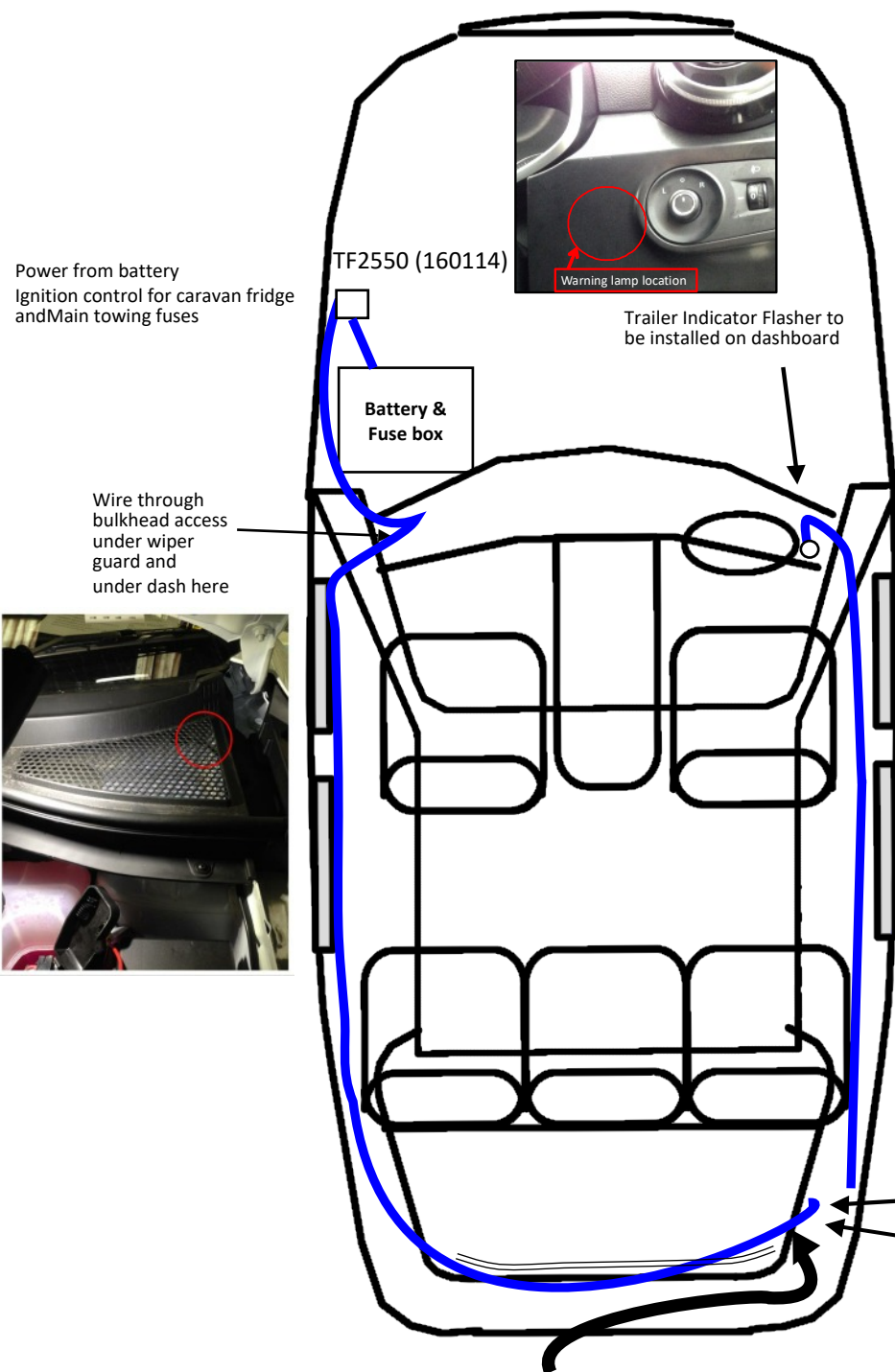




ZS

Fitting steps

- Install the front assembly at the battery and fuse box under the bonnet (Page 4).
- Lead the twin power cable through the car to the installation point.
- Install the 13-pin socket and loom (Page 3).
- Connect the Module 14-pin connector to the car's 14-pin towing connector as located on diagram.
- Twin, fused power inputs to the switched grey wire and the orange unswitched wire power line of the 13-pin socket loom (Page 5).
- Secure the Towing Module, TFC2 and the TFR1 behind wheel well (as shown in picture below).
- Plug 14-pin and 8-pin plugs into the module and 6-pin connectors together.
- Run trailer indicator flasher through the car to indicated installation point on the dashboard as shown in diagram.



The TF2218/7PIN, TFC2 and TFR1, are to be secured to the car in this area.



The MG 14-pin Towing connector to be located on the car loom here.

Access to MG towing Connector on car loom, Towing module and relay Module's housed here,

13 Core Cable entry grommet here

**MG ZS
2018**

Towing Electrical Kit

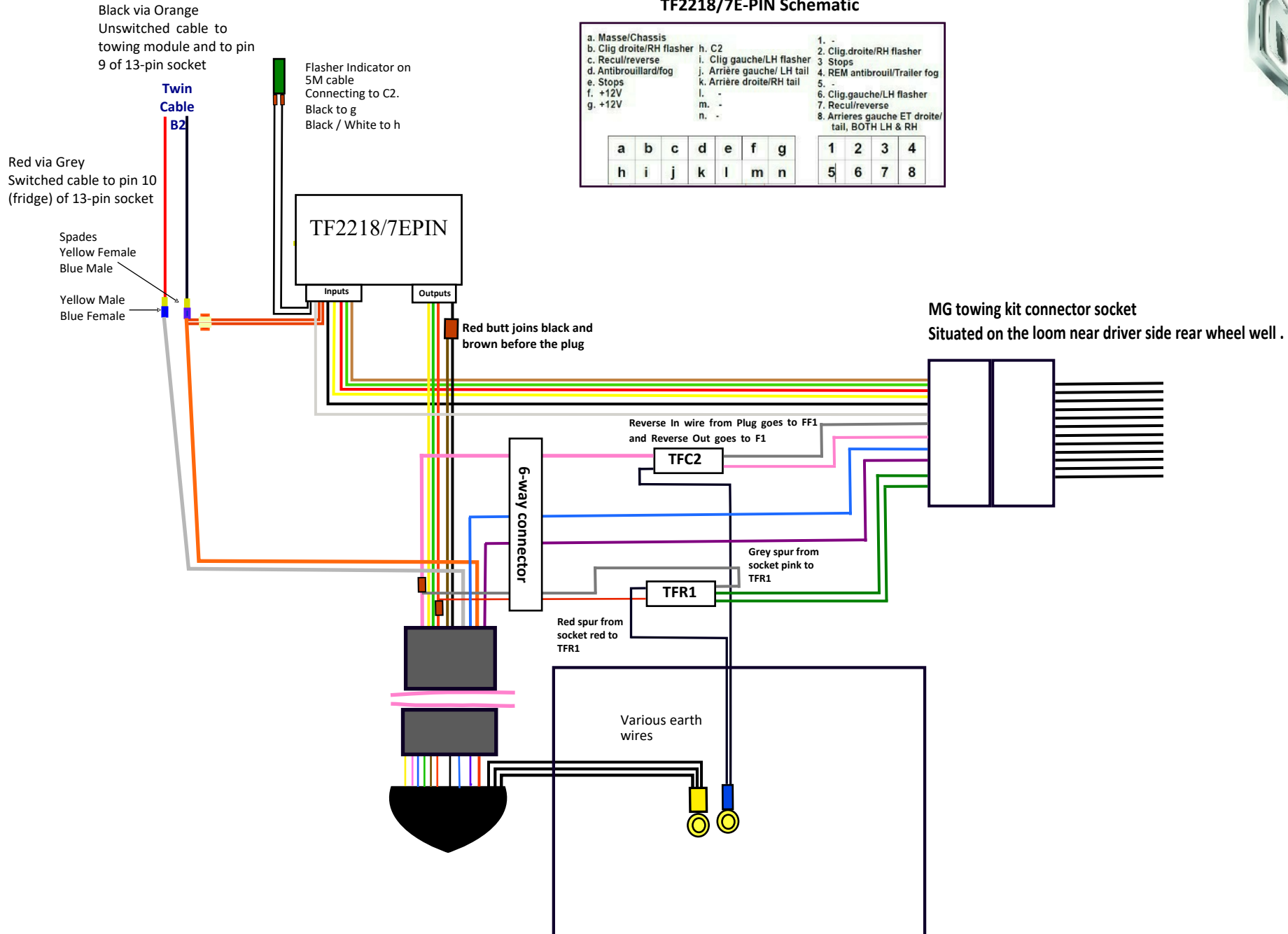
MG ZS Kit 2018 Rear end: Main Assembly



TF2218/7E-PIN Schematic

a. Masse/Chassis	h. C2	1. -
b. Clig droite/RH flasher	i. Clig gauche/LH flasher	2. Clig.droite/RH flasher
c. Recul/reverse	j. Arrière gauche/ LH tail	3. Stops
d. Antibrouillard/fog	k. Arrière droite/RH tail	4. REM antibrouil/Trailer fog
e. Stops	l. -	5. -
f. +12V	m. -	6. Clig.gauche/LH flasher
g. +12V	n. -	7. Recul/reverse
		8. Arrières gauche ET droite/ tail, BOTH LH & RH

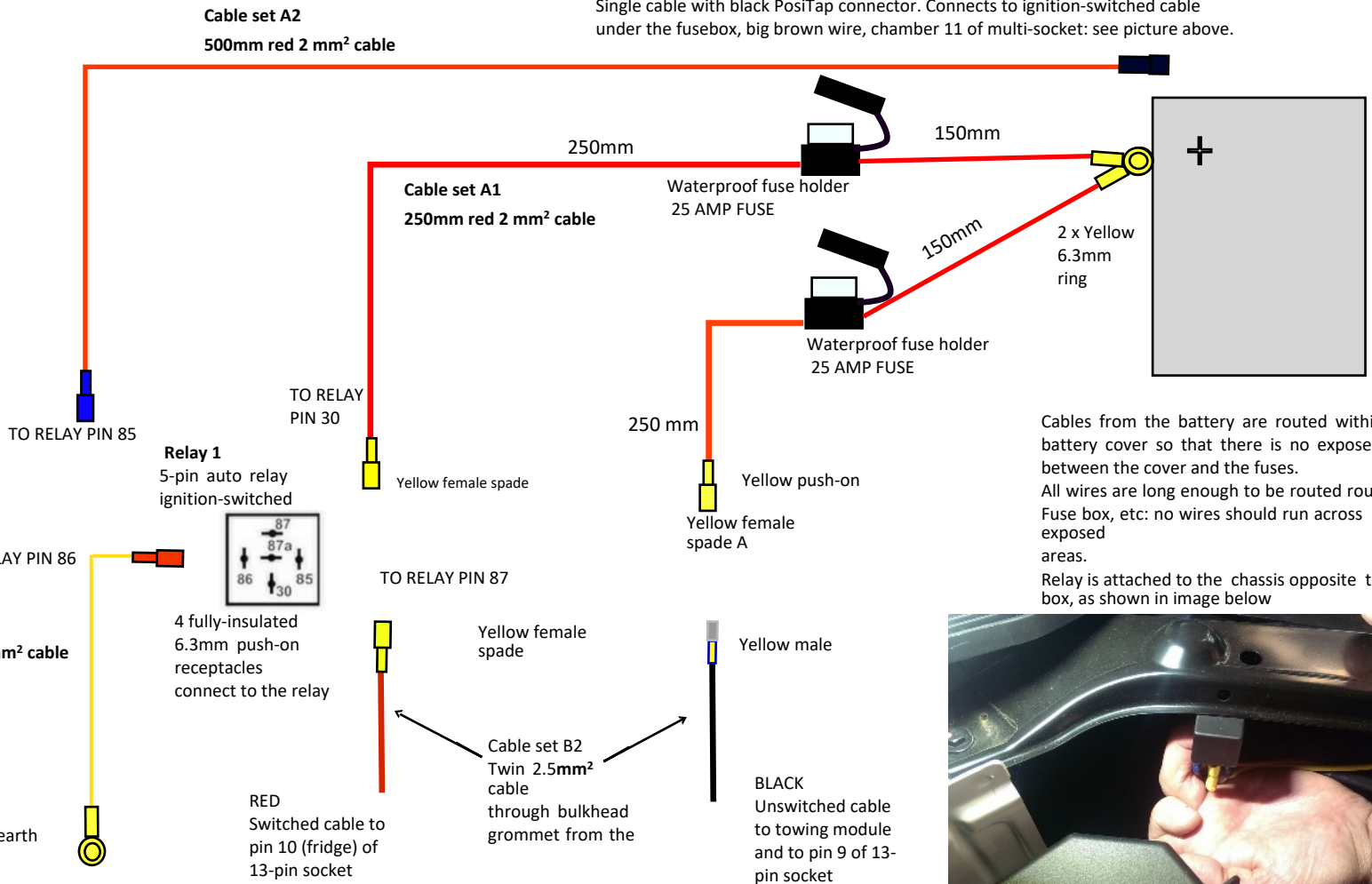
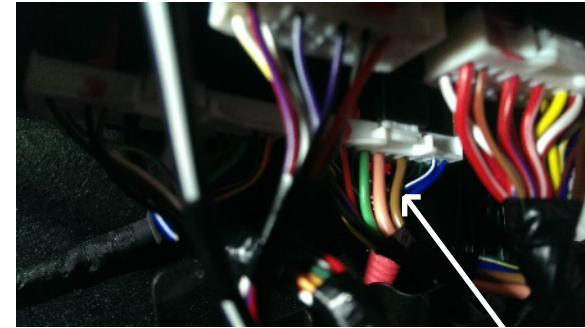
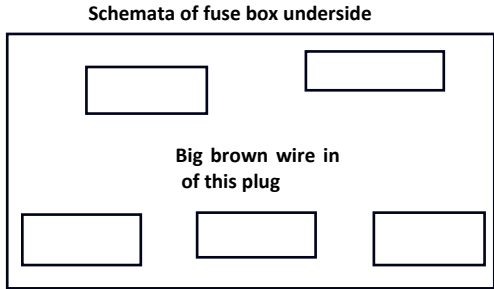
a	b	c	d	e	f	g	1	2	3	4
h	i	j	k	l	m	n	5	6	7	8



MG ZS Kit 2018 Front end

LUGA1 Sets A1, A2, A3

LUGB2 Set B2



Cables from the battery are routed within the battery cover so that there is no exposed wire between the cover and the fuses. All wires are long enough to be routed round the Fuse box, etc: no wires should run across exposed areas. Relay is attached to the chassis opposite the fuse box, as shown in image below

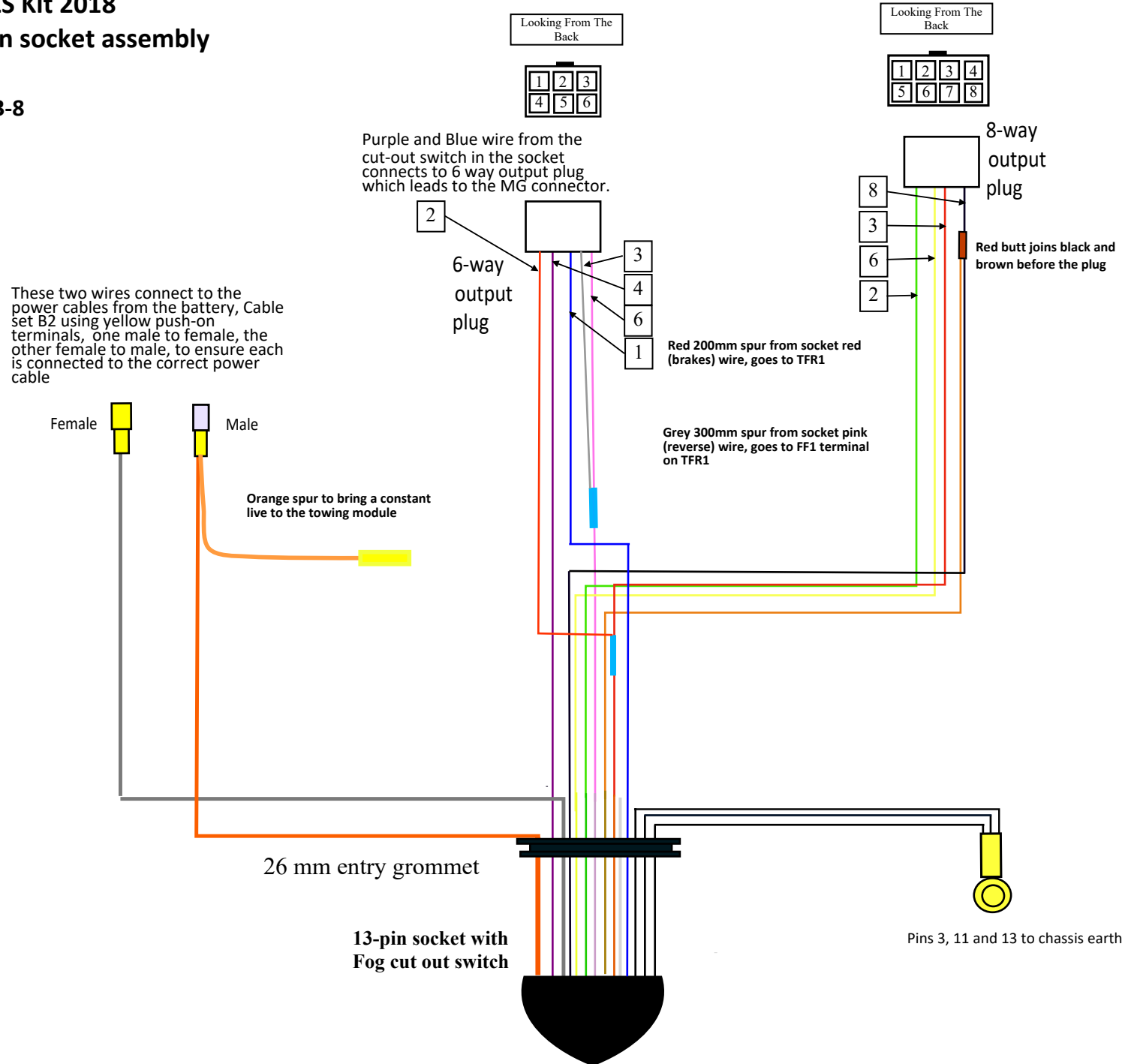


Yellow wire, Blue ring terminal to chassis earth

MG ZS Kit 2018

13-pin socket assembly

LUG13-8



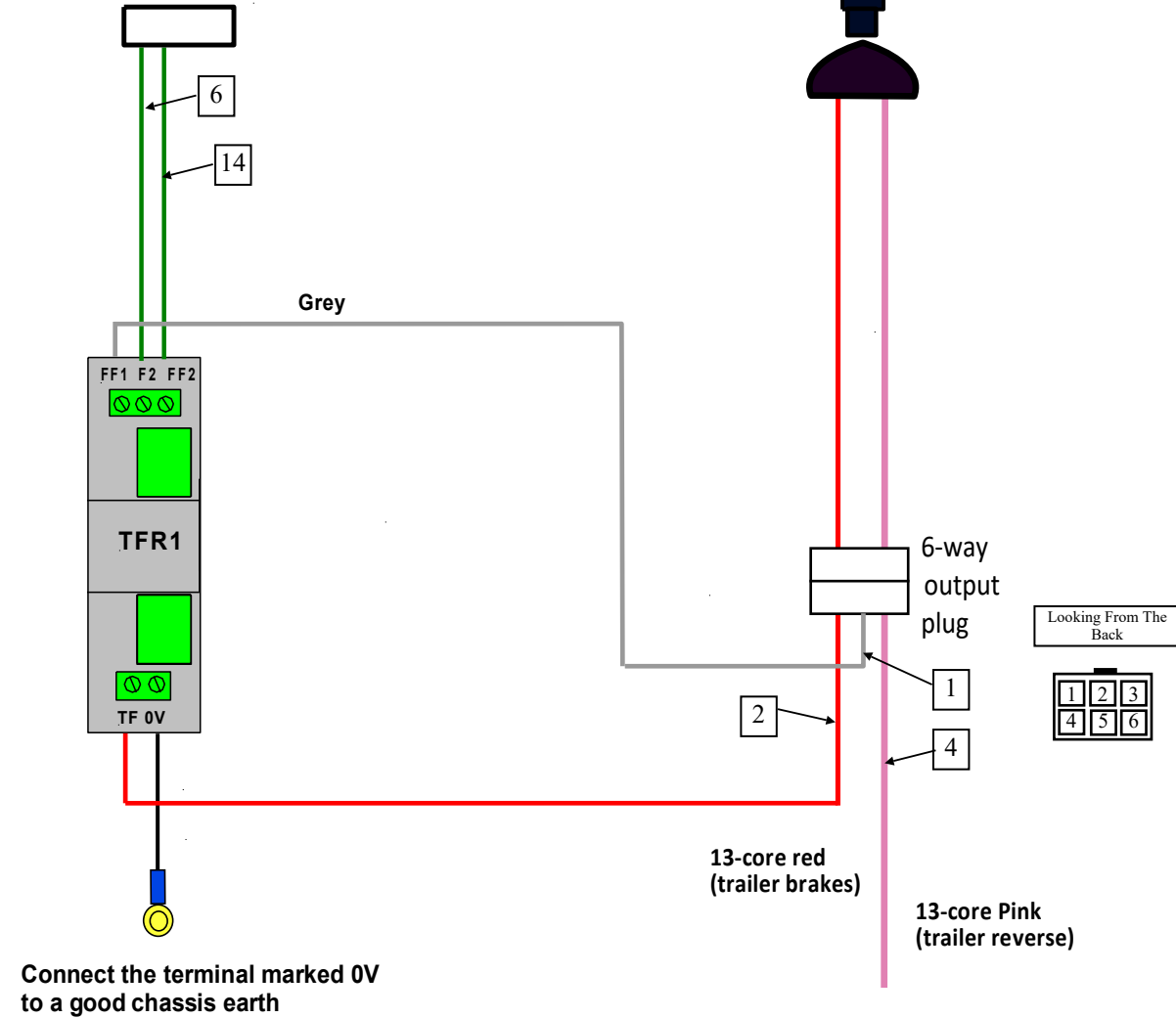
MG ZS Kit 2018

Connecting the TFR1, PDC sensor cut-out



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Green / White wires for PDC cut out go to the MG connector socket on harness.

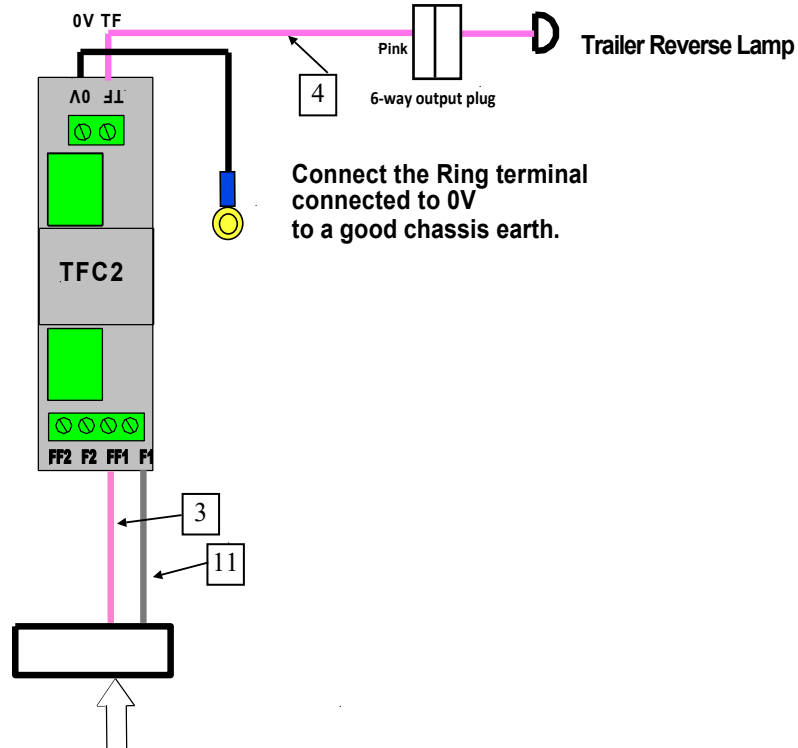




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TFC2 Bulb cut-out relay

Connect the Pink wire of the 7-core to the terminal marked "TF"



Connect the Ring terminal connected to 0V to a good chassis earth.

Pink and grey wires go to the MG connector socket on the harness.



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LUGA1 Sets A1, A2, A3

LUGB2 Set B2

Cable set A1

500mm red 2 mm² cable

Black PosiTap

Connects to ignition-switched cable under the fusebox



Cable set A3

600 mm yellow 2 mm² cable

Blue 6.3mm push-on

Blue 6.3mm ring

Cable set A2

250 mm

150mm

2 x Yellow 6.3mm ring

Waterproof fuse holder
25 AMP FUSE

150mm

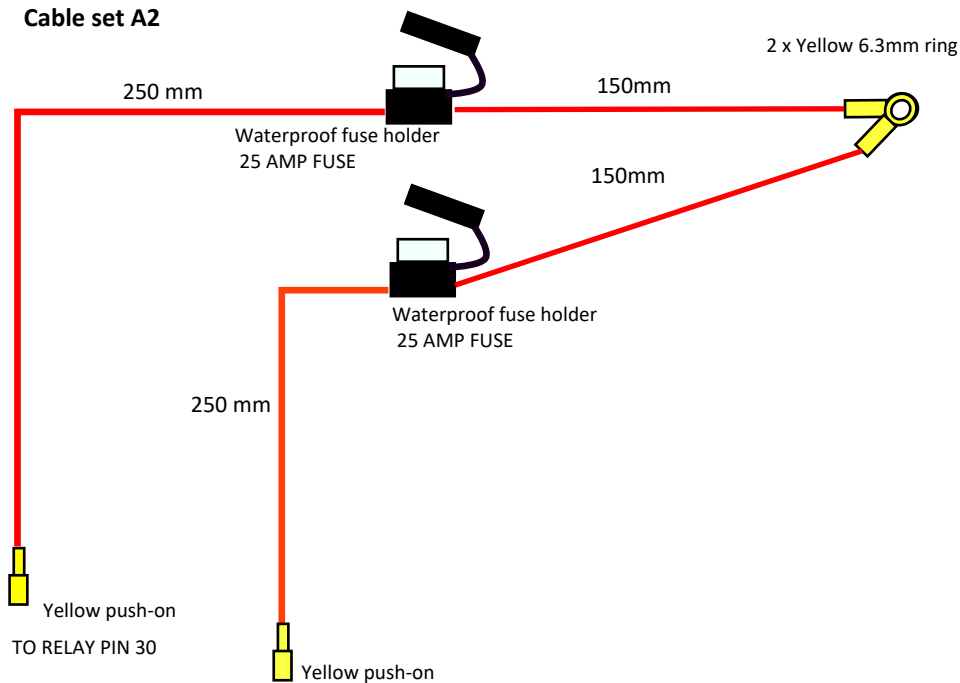
Waterproof fuse holder
25 AMP FUSE

250 mm

Yellow push-on

TO RELAY PIN 30

Yellow push-on



Yellow female spade to relay pin 87

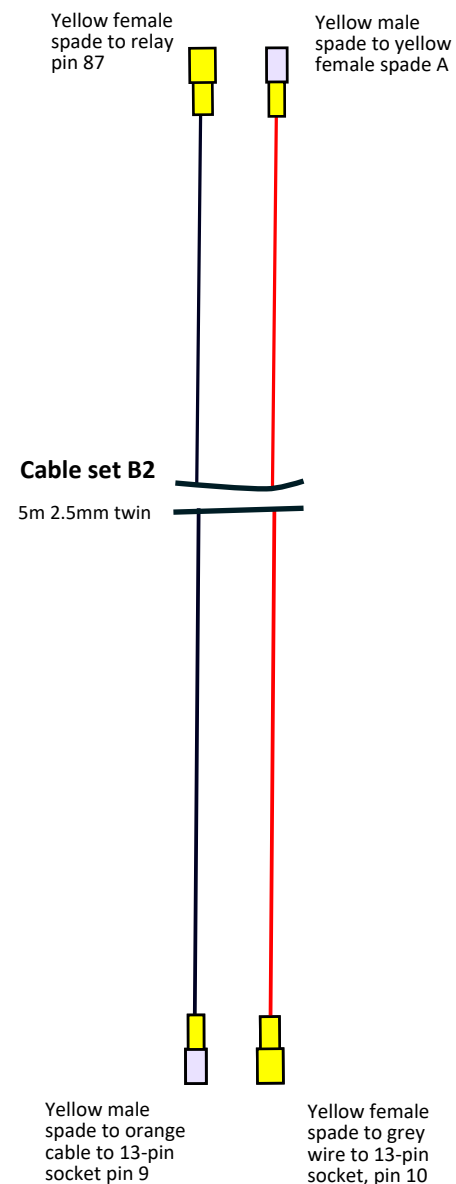
Yellow male spade to yellow female spade A

Cable set B2

5m 2.5mm twin

Yellow male spade to orange cable to 13-pin socket pin 9

Yellow female spade to grey wire to 13-pin socket, pin 10



MG ZS kit 2018

Fitting notes



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Ignition-switched feed to relay 1

Unclip the fuse box at A4 to access multi-plugs on the underside.

Use a black PosiTap connector to join Cable A to the Brown cable , located on middle multi socket in Chamber 11, as shown in picture and diagram on page 3

Bulkhead access

There is a bulkhead access point under the passenger side wiper guard, that leads from the engine compartment to under the dashboard in the passenger side foot well.

As shown in the diagram on page 2.

Unswitched feed to Towing Module

This feed is taken from the unswitched orange socket wire

Cutting out the reversing sensor

This is done by cutting the earth wire of the little CPU that controls the reversing sensors. TFR1 is a cut-out relay connected to the reverse feed to the trailer.

It only activates when a trailer is connected.

Important note

Make sure the 13-pin socket is bolted tightly to the mounting plate. This ensures the correct operation of the cut-out switch.

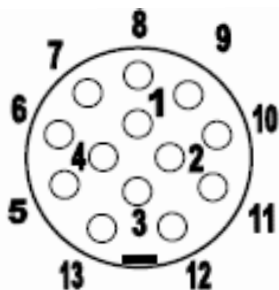
Components

- Posi-Taps, Black 1
- ATO fuses 25 amp 2
- ATO fuses 10 amp 2
- MG-specific connectors + crimps 2 pairs
- 30mm M5 screws and nuts 3
-

Relays/module/etc.

- TF2218/7EPIN 1
- TF2550 5-pin relay 1
- TFR1 Reverse sensor cut out 1
- TF1313PWUPF 13-pin pw socket with fog cut-out 1
- TV1603 Mini buzzer 1

13-pin wiring



* The colours from 8 to 13 are not standard across all suppliers

Pin	Cable colour*	Function	8-pin relay plug - pin:	
1	Yellow	LH flasher	6	
2	Blue	Fog lights	Diode set	
3	White	Earth (For 12N)	Ring	
4	Green	RH flasher	2	
5	Brown	RH tail light	8	
6	Red	Brake lights	3	
7	Black	LH tail light	8	
8	Pink	Reversing light	7	
9	Orange	Constant live		
10	Grey	Ignition-controlled power supply		
11	White/black	Earth (for pin 10)-	Ring	
12	Blank			
13	White/red	Earth (for pin 9)	Ring	
14	White/blue	<i>Cut-out</i>		



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14-way relay plug				
Pin	Cable colour*	Function	in MG XS kit	
a	White	Chassis / Earth		
b	Green	RH Flasher		
c	Blank			
d	Blank			
e	Red	Brakes		
f	Orange	Power in, fused	To unswitched power line	
g	Orange	Power in, fused	To unswitched power line	Also to positive of TV1600
h	C2	To Neg of TV1600		
i	Yellow	LH Flasher		
j	Black	LH Tail		
k	Brown	RH Tail		

Component Assemblies

LUGA1

LUGA2

LUGTEE/LUGTEE14

LUGC3

LUG13-8

LUGFCO

Also

TF2218/7E-PIN

TFR1

TF2250